

NONBACTERIAL PROSTATITIS MODEL ANIMAL
NAKANO, et al.
Appl. No.: Unknown Atty Docket: SAEG153.002APC

1/7

Figure 1

(a) Pathohistological evaluation of the prostate: 6 hours after hydrochloric acid injection

Site/histological observation	Sample code	N	Y	P
prostate (longitudinal plane)				
dorsolateral lobe		-		
lumen				
loss of glandular epithelial cells				++
peeling of epithelium			+++	+++
degeneration/necrosis				+++
presence of erythrocytes				++
stroma				
ampulla ductus deferentis		-		-
lumen				
peeling of epithelium			+++	
degeneration/necrosis			+++	
bleeding			+++	
stroma				
vas deferens		-		-
bleeding			+++	
seminal vesicle		-		-
lumen				
presence of erythrocyte			+++	

(b) Pathohistological evaluation of the prostate: 4 days after hydrochloric acid injection

Site/histological observation	Sample code	N	Y	P
prostate (longitudinal plane)				
dorsolateral lobe		-	-	
lumen				
loss of glandular epithelial cells				+++
peeling of epithelium				+++
presence of erythrocytes				+++
degeneration/necrosis				+++
bleeding				++
stroma				
inflammatory cellular infiltration				+++
fibroblast hyperplasia				++
ampulla ductus deferentis		-		-
lumen				
loss of glandular epithelial cells				
presence of erythrocytes			±	
stroma				
inflammatory cellular infiltration			+	
fibrosis				

(c) Pathohistological evaluation of the prostate: 8 days after hydrochloric acid injection

Site/histological observation	Sample code	N	Y	P
prostate (longitudinal plane)				
dorsolateral lobe		-		
lumen				
loss of glandular epithelial cells			±	+
presence of erythrocytes			±	+
degeneration/necrosis				++
localized bleeding				+
stroma				
inflammatory cellular infiltration				++
fibrosis				++
localized bleeding			±	
ampulla ductus deferentis		-		-
lumen				
presence of erythrocytes			+	
stroma				
inflammatory cellular infiltration			±	
vas deferens		-		-
lower layer of transitional epithelium				
fibrosis			+++	
granuloma			++	
inflammatory cellular infiltration			+	

Sample code: N = control group (rats in which hydrochloric acid was not injected), Y = comparative group (rats in which hydrochloric acid was injected into the vasa deferentia), P = test group (rats in which hydrochloric acid was injected beneath the prostatic capsules)
 Grading: - = no change, ± = insignificant, + = slight, ++ = moderate, +++ = severe

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2/7

Figure 2

(a) Pathohistological evaluation of the prostate: 6 hours after hydrochloric acid injection				
Site/histological observation	Sample code	N	Y	P
prostate (transverse plane)				
dorsolateral lobe				
lumen				
presence of erythrocytes				
peeling of epithelium				+++
degeneration/necrosis				++
presence of erythrocyte				+
loss of glandular epithelial cells				++
stroma				
inflammatory cellular infiltration				
localized bleeding			+++	++
nerve cell nigrolysis				+
vas deferens				
lumen				
degeneration/necrosis			+++	
peeling of epithelium			+++	
ulcer			++	
bleeding			++	
seminal vesicle				
lumen				
peeling of epithelium			+	
ulcer			++	
(b) Pathohistological evaluation of the prostate: 4 days after hydrochloric acid injection				
Site/histological observation	Sample code	N	Y	P
prostate (transverse plane)				
dorsolateral lobe				
lumen				
loss of glandular epithelial cells				++
presence of erythrocyte				
bleeding from the periphery				+
atrophy				++
peeling of epithelium				++
necrosis				+++
bleeding				++
stroma				
inflammatory cellular infiltration				+++
bleeding from the blood vessels				++
coagulation necrosis of the blood vessels				+++
fibroblast hyperplasia				++
outside the tunica serosa ventriculus				+++
nerve cells necrosis				+
ampulla ductus deferentis				
lumen				
inflammatory cellular infiltration			±	
peeling of epithelium			±	
degeneration/necrosis				
presence of erythrocytes			+	
stroma				
inflammatory cellular infiltration			+	+
vas deferens				
lumen				
necrosis			+++	
bleeding			+++	
lower layer vas deferens epithelium and muscular layer				
necrosis			++	
granulation tissue epithelial cell formation???				
seminal vesicle				
(c) Pathohistological evaluation of the prostate: 8 days after hydrochloric acid injection				
Site/histological observation	Sample code	N	Y	P
prostate (transverse plane)				
dorsolateral lobe				
lumen				
peeling of glandular epithelial				+
loss of glandular epithelial cells				++
presence of erythrocytes				
degeneration/necrosis				+++
localized bleeding				+
Stroma				
inflammatory cellular infiltration				+
fibrosis				++
localized bleeding				±
ampulla ductus deferentis				
lumen				
secretory degeneration				+
presence of erythrocytes				
stroma				
inflammatory cellular infiltration			+	
vas deferens				
lower layer / vas deferens and muscular layer				
fibrosis			++	
granuloma (granulation)			++	
inflammatory cellular infiltration			±	
localized bleeding				
fibrosis				
lumen				
bleeding				
necrosis			±	

Sample code: N = control group (rats in which hydrochloric acid was not injected), Y = comparative group (rats in which hydrochloric acid was injected into the vasa deferentia), P = test group (rats in which hydrochloric acid was injected beneath the prostatic capsules)
 Grading: - = no change, ± = insignificant, + = slight, ++ = moderate, +++ = severe

3/7

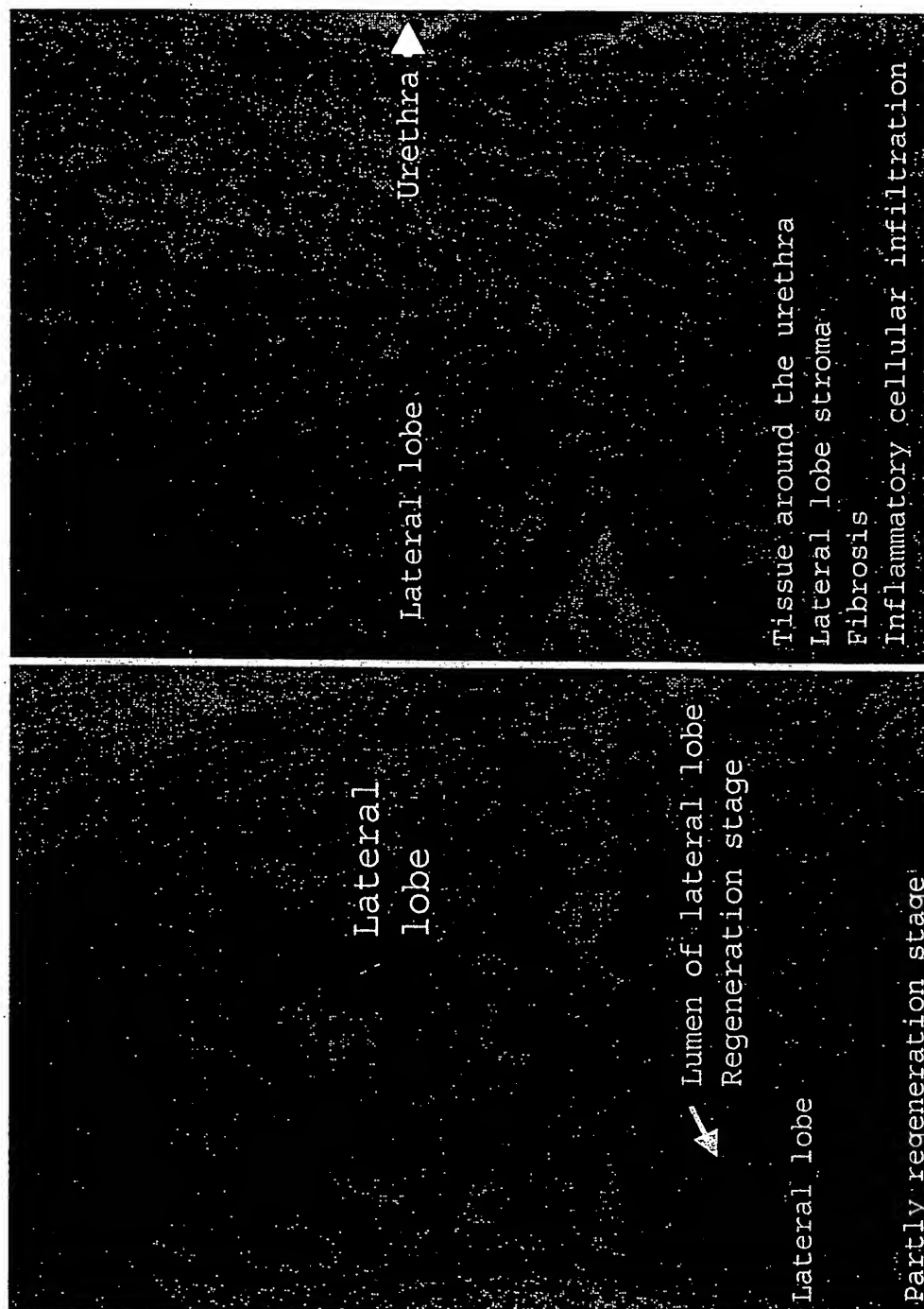


Figure 3 The longitudinally section of the prostate lateral lobe and the tissue around the urethra sampled 8 days after hydrochloric acid injection

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4/7

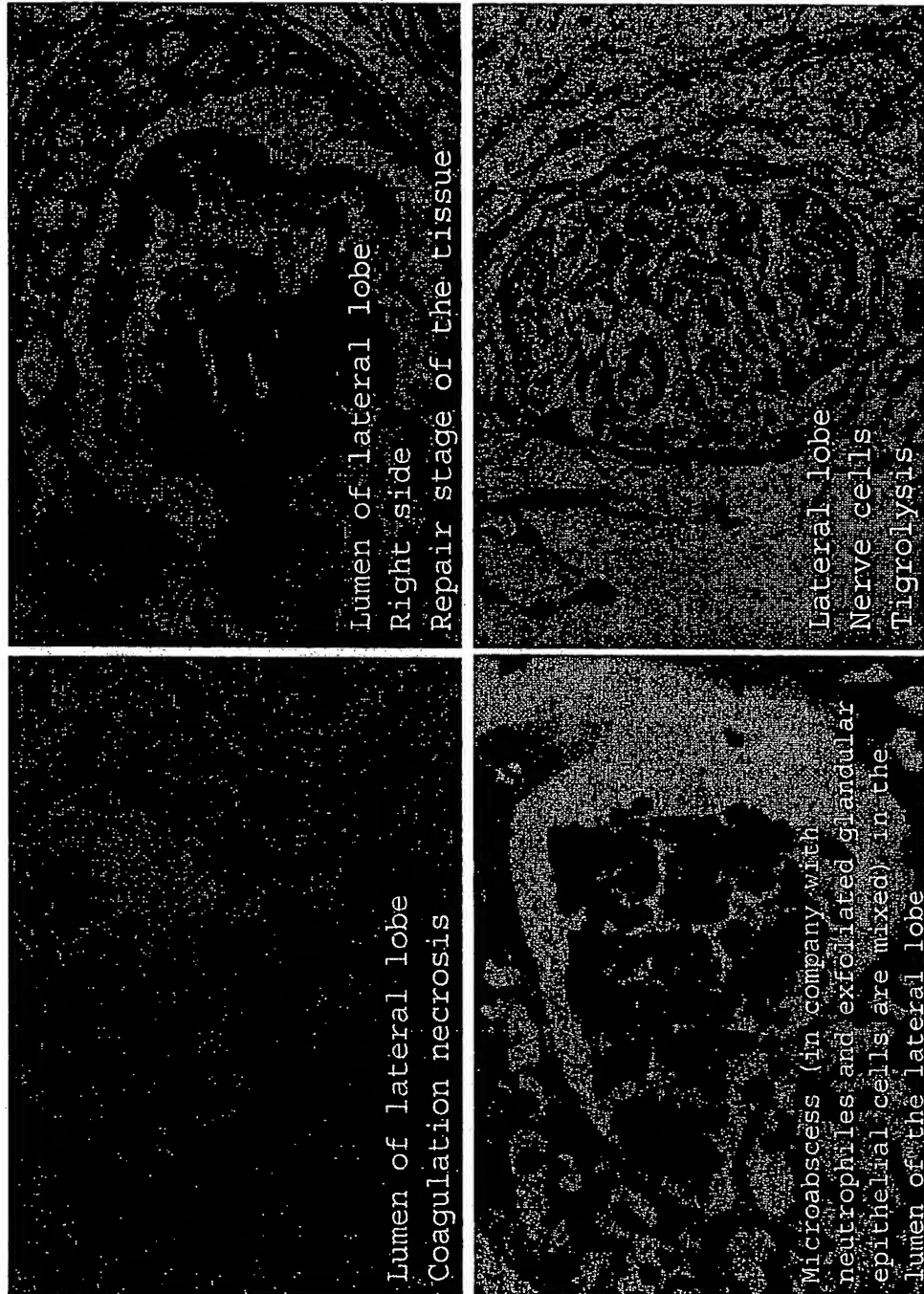
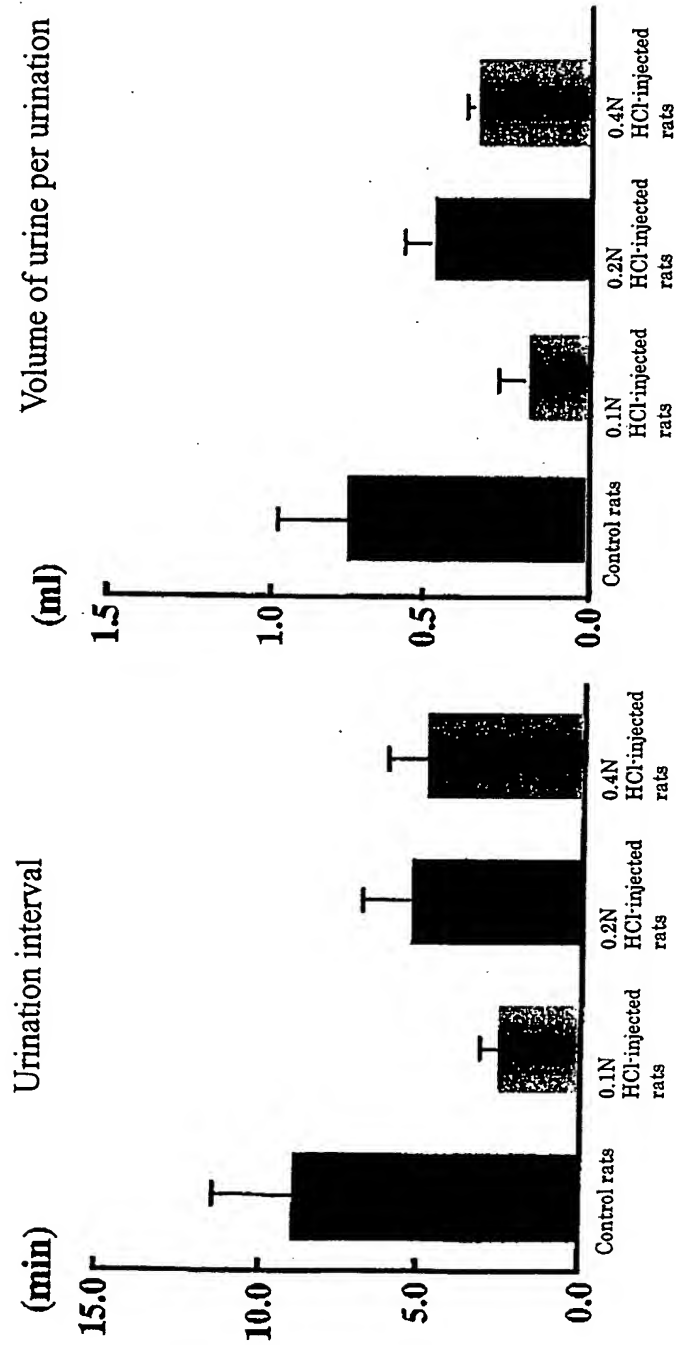


Figure 4 The lumen of the prostatic lateral lobe and the nerve cells of a tissue sampled 8 days after hydrochloric acid injection

5/7

FIG. 5

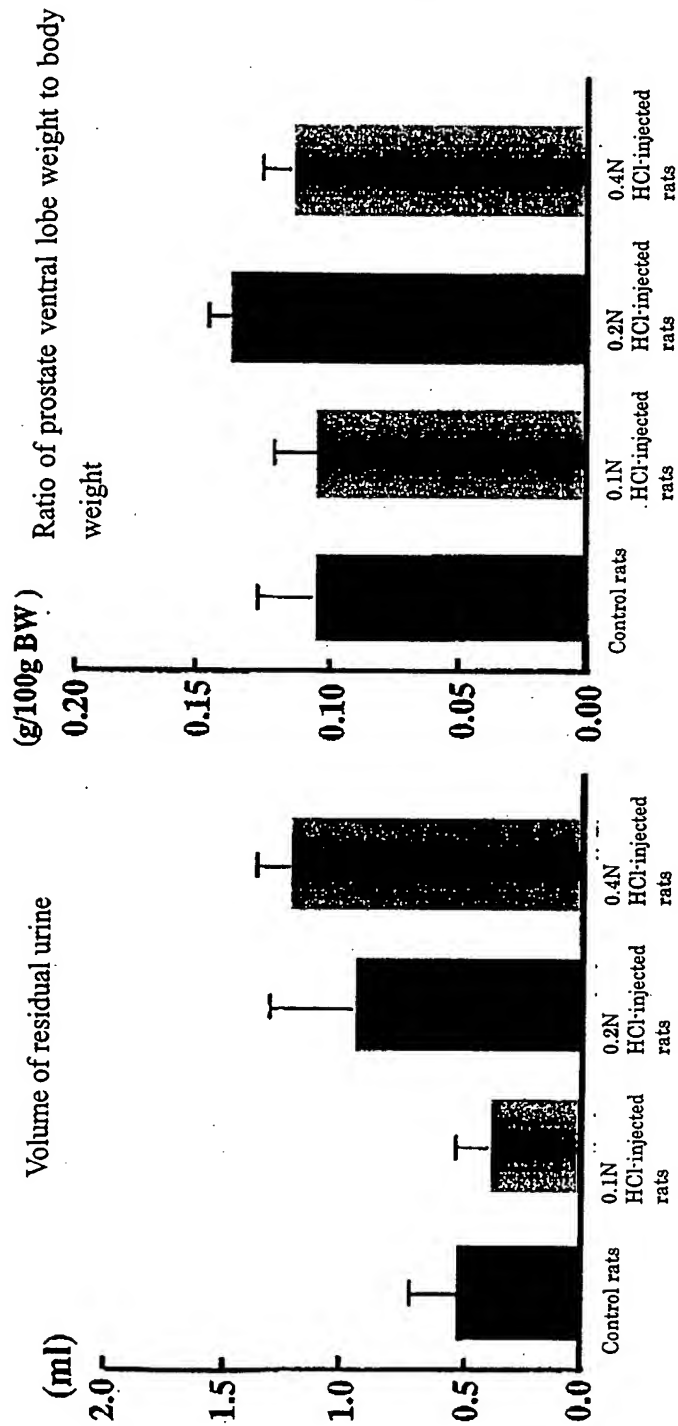
Result of measuring parametric values for bladder function (1)



6/7

FIG. 6

Result of measuring parametric values for bladder function (2), and ratio of prostate ventral lobe weight to body weight



7/7

FIG. 7

Ratio of prostate dorsolateral lobe weight to body weight, and ratio of bladder weight to body weight

